

Date: Tue, 9 Feb 93 22:06:19 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #191
To: Info-Hams

Info-Hams Digest Tue, 9 Feb 93 Volume 93 : Issue 191

Today's Topics:

3SK129 pinout needed.
73s (Not 73) (2 msgs)
920 MHz oscillators
Aurora '93 - VHF'ers paradise after the Hamfest
Beware the Jabbawock and VEC
circuit modeling
Help CW practice (2 msgs)
Help with Kenwood TH-225A problems :-(
Home building PTOs (2 msgs)
I got my license today !
Source for ON4UN's "Low Band Dx'ing"
Testing
Wayne Green, ARRL, 73, QST background?
What prevents someone from having 2 amateur licenses?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 9 Feb 93 12:24:35 CST
From: equalizer!timbuk.cray.com!hemlock.cray.com!andyw@network.UCSD.EDU
Subject: 3SK129 pinout needed.
To: info-hams@ucsd.edu

I'm about to replace a 3SK129 FET in the front end of one of my radios,
but the service manual doesn't give the pinout (it does for every other
transistor/diode !). If anyone has this info, I'd appreciate an email.

The package is a plastic pill with 4 leads, one longer than the other three.

Thanks,

--

andyw. NØREN/G1XRL

andyw@aspen.cray.com Andy Warner, Cray Research, Inc. (612) 683-5835

Date: Tue, 9 Feb 1993 19:39:29 GMT
From: news.service.uci.edu!ttinews!harley!paulb@network.UCSD.EDU
Subject: 73s (Not 73)
To: info-hams@ucsd.edu

In article <C1y4Ev.6pw@spk.hp.com> dubner@spk.hp.com (Joe Dubner) writes:
+
+ You are invited to add to the list. I'd continue it, but it's time
+for me to take the dog to his therapist. C'mon Spuds.

I'd love to help you out, but I have to floss my cat's teeth.

I couldn't have gotten a parity error. I don't even own a parrot.

Paul Blumstein, paulb@harley.tti.com, DoD #36, ABATE, AMA, HOG, KD6LAA
Transaction Technology, Inc., Santa Monica, CA

Date: 9 Feb 93 21:04:40 GMT
From: ogicse!uwm.edu!spool.mu.edu!olivea!bu.edu!wang!dbushong@network.UCSD.EDU
Subject: 73s (Not 73)
To: info-hams@ucsd.edu

alanb@hpnmdla.sr.hp.com (Alan Bloom) writes:

>In rec.radio.amateur.misc, dubner@spk.hp.com (Joe Dubner) writes:

>> Have you ever noticed the ingenious excuses that a ham will use
>>when he wants to terminate a QSO. Rather than hurt the QSOee's feelings
>>by saying he'd rather read yesterday's newspaper than continue the QSO
>>any longer, a ham will find some "crisis" needing his attention.

>Well, there's always the trusty "Gotta go to the sandbox."

There's a 'Q' code for that, though: QRJ (Quick Run to the John)

Dave

--

Dave Bushong, Wang Laboratories, Inc. Amateur Radio Callsign KZ10
Project Leader, OCR products kz1o@n0ary.#noca.ca.na
Internet: dbushong@wang.com

Date: Tue, 9 Feb 1993 14:53:01 GMT
From: newshub.nosc.mil!dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!
howland.reston.ans.net!paladin.american.edu!gatech!kd4nc!ke4zv!
gary@network.UCSD.EDU
Subject: 920 MHz oscillators
To: info-hams@ucsd.edu

In article <C25CsE.pt@cs.uiuc.edu> u2203@cs.uiuc.edu (Nicolas Dade) writes:
>How are 920 or so MHz oscillators built? That is, do they start with a
>lower frequency signal and multiply it, or have a very large resonant
>cavity?
>
>Perhaps I should ask how the oscillator in cellular phones is built,
>since they aren't too far from 920MHz in frequency.

There are two main methods. One is to use an 80-100 MHz crystal and multiply it 9-10 times by a couple of stages of multipliers and then stripline filter the result. The other method uses a voltage variable oscillator at 900 MHz with a divider and PLL generating an error voltage to keep it locked to a low frequency reference. Repeaters and other commercial systems use the former method while frequency agile systems like cellular phone use the latter.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: Mon, 08 Feb 1993 01:18:15 -0600
From: pacbell.com!sgiblab!spool.mu.edu!sol.ctr.columbia.edu!The-
Star.honeywell.com!umn.edu!kksys.com!tdkt!FredGate@network.UCSD.EDU
Subject: Aurora '93 - VHF'ers paradise after the Hamfest
To: info-hams@ucsd.edu

Organization: 11th Hour Contest Group (North American Chapter)

The following message is of interest to all Hams involved in 6m and up ssb, cw, EME, ATV, Microwave, and Laser, or those that want to be. Aurora '93 is presented by the Northern Lights Radio Society.

-----Cut Here-----

AURORA '93

When: Saturday, February 13, 1993 starting at 2:00 PM with registration and eyeball QSOs. Program starting at 3:00 PM.

Where: Village North Professional Building, 7420 Unity Avenue North, Brooklyn Park. Take Brooklyn Boulevard (#152) 1.5 mile north of I-694; turn left at the stop light.

What: VHF-UHF-Microwave talks; flea market and informal discussion. Bring items to sell, or just to show-and-tell. Bring filters to characterize or tweak.

Fee: \$5.00 to cover expenses.

Lodging: The best rates in the area: Super 8 / Brooklyn Center; 1-694 at Shingle Creek Parkway. Call 1-800-800-8000.

Questions? Contact: Paul Husby, W0UC (612) 642-1559 (eves)
(612) 560-4147 (days)

Plan ahead: Aurora '94 will be February 12, 1994 !

Our 10th annual upper-midwest VHF/UHF gathering will be held on Saturday, February 13, 1993. This year's program will include talks on meteor scatter, UHF contesting, K6STI's new Antenna Optimizer program, a demo on filter tweaking, updates on local activity and a VHF flea market.

As usual, we coincide with the Midwinter Madness hamfest at the National Sports Center in Blaine. This is an outstanding site and a great show; if you haven't attended recently, you must give it a try. For those of you from out of town, consider sending your family off to Mall of America and Camp Snoopy for the day, while you enjoy Midwinter Madness and Aurora '93. Let me know if you need a ride between the hamfest and Aurora '93, which will again be held in Brooklyn Park. We have a large room in which to meet and numerous restaurants within walking distance.

Registration for Aurora '93 will start at 2:00, with the program beginning at 3:00 and running into the evening; there will be a break for dinner. As usual, the main highlight will simply be the chance to have eyeball QSOs with other VHFers of similar interests. Be there!

Please send registration by January 31, 1993 to:

Paul Husby (Pre-registration is not required,
1462 Midway Parkway but saves everyone time on Saturday,
St. Paul, MN 55108 and helps me know how many to expect.)

Fee- \$5.00 Include your standings box report!

Name_____Call_____

Address_____Phone_____

City_____State__ Zip ____-____

Circle bands and activities in which you are active:

50 144 222 432 902 1296 2304 3456 5760 10GHz 24GHz LASER

OSCAR EME ATV Packet Contests

See You There!!!

Steve KA0VYB

Date: 9 Feb 93 19:51:50 GMT
From: ogicse!uwm.edu!zaphod.mps.ohio-state.edu!rphroy!link.ph.gmr.com!
vbreault@network.UCSD.EDU
Subject: Beware the Jabbawock and VEC
To: info-hams@ucsd.edu

In article <1993Feb9.175622.12425@ttinews.tti.com> paulb@harley.tti.com (Paul Blumstein -- KD6LAA) writes:

It is 10 O'Clock -- Do You Know Where Your License Is?

On November 14, I passed the code portion of my General, completing my license requirements. A week later (11/21), I passed the Advanced test. I attached my Tech license and all of the certificates showing that my General was passed, but not yet received. I marked the "license pending" portion of Form 610 stating this condition. The VE's congratulated me and said that I should receive my license in 6-8 weeks.

I, too, congratulate you.

In mid January, I got my General certificate. I figured that my Advanced should be about a week behind. Several weeks went by and nothing. So, I called one of the VE's. He told me to check with the VEC and gave me his phone #.

The VEC said that he was holding on to my Advanced application, waiting for me to send him a copy of my General license.

97-A-97.19(b)

"Each application for a renewed or modified amateur service license must be accompanied by a photocopy of the license document or the original document. Each application for an operator license involving a change in operator class must be submitted to the VEs administering the qualifying examination.. All other applications must be submitted to: FCC P.O. Box 1020, Gettysburg, PA 17326."

The VEC needed a copy of your license to submit with the application. Your opening paragraph was a little vague in this respect, but I believe you submitted a copy of your Technician license with the 610 for Advanced. The VEC saw the "license pending" box, set the application aside, and waited for the forthcoming General license. (The Technician license would no longer be a current license when the General class license is issued.)

I believe you have a valid gripe with regard to the VE team failing to tell you of the delay. They are not, however, REQUIRED to tell you so all you can accuse them of doing is not giving you advice.

When your Advanced ticket arrives, make a copy of it and send in with an application to the VEC of your choice. Then you can join the folks that help keep the wheels turning.

BTW, he mentioned that he had 100 applications in his pending file. I wonder whether 100 other hams are wondering where their licenses are.

I imagine not.... The VE teams that I've encountered have mentioned it to the applicants. Your team must have forgotten to tell you or perhaps they did but you misunderstood and sent in the Technician license.

At any rate, the important thing is: You worked for the upgrade and you got it. Congratulations once again.

--

-val-

Val Breault - GM Research - vbreault@gmr.com - N80EF
Instrumentation dept., 30500 Mound Rd., Warren, MI 48090-9055
The opinions expressed by the author do not necessarily reflect
those of GMR or those of the General Motors Corporation.

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\\ / |
\\ /__|
\\ / |__

Date: 9 Feb 93 13:57:16 +0200
From: unogate!news.service.uci.edu!usc!howland.reston.ans.net!spool.mu.edu!
yale.edu!ira.uka.de!math.fu-berlin.de!news.netmbx.de!Germany.EU.net!mcsun!sunic!
ebc.ee!tuc!juhan@@mvb.saic.com
Subject: circuit modeling
To: info-hams@ucsd.edu

In <1993Feb5.150351.24631@lynx.dac.northeastern.edu>
leonard kay (lkay@lynx.dac.northeastern.edu) wrote:

:> Hmmm... this doesn't sound right. I know for a fact I downloaded the
:> complete FORTRAN source code for SPICE (probably 2G5) from a PUBLIC
:> FTP site a while ago. I wound up deleting it as I too use
:> PSPICE on my 386.

The 2G5 site is louie.udel.edu.
Read comp.lsi.cad FAQ article for a lot of info on spice and other
simulators. Can be found at pit-manager.mit.edu.

--

Juhan Poeldvere, ES5QX | juhan@chem.ut.ee
Tartu University, Dept. of Chemistry | fax: 7+01434+35440
2 Jakobi St., EE-2400, Tartu, Estonia, via Stockholm | voice: 7+01434+35429

Date: Tue, 9 Feb 1993 14:48:32 GMT
From: newshub.nosc.mil!dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!
howland.reston.ans.net!paladin.american.edu!gatech!kd4nc!ke4zv!
gary@network.UCSD.EDU
Subject: Help CW practice
To: info-hams@ucsd.edu

In article <1993Feb8.135709.9743@hemlock.cray.com> dadams@cray.com writes:

>

>I have been practicing CW about 15 min. a day here on my computer terminal.
>I seem to be stuck at 9 wpm. I practice at ~13 wpm. Every time I hit an
>e my brain just loses it. I don't have enough time to listen, write the
>"E" down, and by that time I've missed the next letter. What do I need to
>do?

Try copying faster code. Don't worry if you miss letters. You're
trying to break the habit of decrypting individual sound groups as
letters and develop the habit of hearing letters as complete sounds.
13 WPM is too slow for that transition for some people.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 9 Feb 93 19:01:33 GMT

From: ogicse!uwm.edu!cs.utexas.edu!convex!constellation!essex.ecn.uoknor.edu!
usenet@network.UCSD.EDU

Subject: Help CW practice

To: info-hams@ucsd.edu

In article <1993Feb8.135709.9743@hemlock.cray.com> dadams@cray.com (David Adams)
writes:

>

>I have been practicing CW about 15 min. a day here on my computer terminal.
>I seem to be stuck at 9 wpm. I practice at ~13 wpm. Every time I hit an
>e my brain just loses it. I don't have enough time to listen, write the
>"E" down, and by that time I've missed the next letter. What do I need to
>do?

First off, you may be at a plateau, where your speed seems to go
nowhere, or maybe even seems to go down. This happens (as in
"s**t happens!"). Just keep at it and you will break through.

There may be another problem, though. I figured out a while ago
that at 20 wpm, you have about 0.2 seconds to recognize and
write an "E". Of course, you have more time for longer letters,
so a "buffer" would be useful. At 13 you have more time, but it
is still moving right along...

This is where "copying behind" is useful (if not necessary). You need to be able to recognize the next letter (after the "E") even as you are writing the "E". You may even (eventually) be able to copy several letters behind.

Try this: Stare into space (or maybe at some spot on your paper other than where you are writing) as you copy. Concentrate your mind on hearing and recognizing letters, while your hand writes them. Of course, your letters may go off the lines a bit, but who cares at this point? Anyhow, I found this helped me to copy behind.

Good luck, and practice, practice, practice :-)

```
+-----+
| Jud Ahern KC5RI                Bitnet: jahern@uokgcn.bitnet      |
| Geology & Geophysics          Internet: jahern@geohub.gcn.uoknor.edu |
| University of Oklahoma        "Opinions expressed here reflect the entire|
| Norman, OK 73019              University, in one convenient location." |
+-----+
```

Date: 9 Feb 93 10:36:17 MDT
From: news.cerf.net!netsys!agate!dog.ee.lbl.gov!hellgate.utah.edu!cc.usu.edu!
slmdj@network.UCSD.EDU
Subject: Help with Kenwood TH-225A problems :-(
To: info-hams@ucsd.edu

A friend has been having trouble with his Kenwood TH-225A HT. :-(...
Before I go mucking about inside (He did have the schematics :)) Does anyone
have any suggestions as to what the problem could be?
There seems to be carrier, but no modulation by the voice end of the thing.
Reasons for this conclusion:

- >Keying the radio "kerchunks" the local repeater (It identifies itself)

- >The tone end of the radio (DTMF) works... We first found the problem while trying to use the repeater's autopatch. We were able to dial, but could not talk to the person on the other end (They could not hear any audio)

- >We have tried a separate microphone that works (we tried it in another radio) in the mic. input plug... Still no dice :(

- >I have checked the ribbon cables inside, making sure they were clean (with denatured alcohol) as well as seated correctly.

Thanks,

— —

[illegible]

Date: 9 Feb 93 18:00:29 GMT
From: ogicse!uwm.edu!zaphod.mps.ohio-state.edu!darwin.sura.net!mojo.eng.umd.edu!
chuck@network.UCSD.EDU
Subject: Home building PT0s
To: info-hams@ucsd.edu

In article <9302082313.AB06133@netmail.microsoft.com> a-kevinp@microsoft.COM (Kevin Purcell, Rho) writes:

```
>Someone said: PT0s are an alternative [to getting good variable
>capacitors for VF0s]
>
>Are there any commercially available unwound PT cores/mechanical
>assemblies available for the amateur these days? Or do I have to use my
>ingenuity :-)
```

Probably the simplest scheme for a linear PTO is to use some kind of screw driven platform to move your core, and then wind the coil with a non-linear spacing between the turns.

If you want your PTO to cover a large frequency range (1MHz +) You will probably need to come up with some fancy nonlinear way of driving the core into the coil, in addition to winding a nonlinear coil.

73,

Chuck Harris - WA3UQV
chuck@eng.umd.edu

Date: Tue, 9 Feb 1993 15:00:58 GMT
From: newshub.nosc.mil!dog.ee.lbl.gov!overload.lbl.gov!agate.spool.mu.edu!
howland.reston.ans.net!paladin.american.edu!gatech!kd4nc!ke4zv!

gary@network.UCSD.EDU
Subject: Home building PT0s
To: info-hams@ucsd.edu

In article <9302082313.AB06133@netmail.microsoft.com> a-kevinp@microsoft.COM
(Kevin Purcell, Rho) writes:

>Someone said: PT0s are an alternative [to getting good variable
>capacitors for VF0s]

>

>Are there any commercially available unwound PT cores/mechanical
>assemblies available for the amateur these days? Or do I have to use my
>ingenuity :-)

As far as I know, you have to use your ingenuity. If you plan to use
a digital dial, it's no sweat. If you need mechanical readout, then
it'll be an interesting venture into non-linear mechanics.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 9 Feb 93 21:09:38 GMT
From: ogicse!uwm.edu!spool.mu.edu!olivea!bu.edu!wang!dbushong@network.UCSD.EDU
Subject: I got my license today !
To: info-hams@ucsd.edu

AXH113@psuvm.psu.edu (Azmi Hashim) writes:

>Hi all,

>I posted on this newsgroup a while ago telling the story of my delayed
>call sign. Well, I received THE letter from FCC today and I was so happy
>to find out that I received my call sign. It's N3ODN.

Congratulations, Azmi! And what a great callsign, too!

73, Dave kz1o (ex-WB40DN)

--

Dave Bushong, Wang Laboratories, Inc.	Amateur Radio Callsign KZ10
Project Leader, OCR products	kz1o@n0ary.#noca.ca.na
Internet: dbushong@wang.com	

Date: 9 Feb 93 20:54:12 GMT
From: news.cerf.net!netsys!agate!spool.mu.edu!howland.reston.ans.net!
zaphod.mps.ohio-state.edu!sdd.hp.com!ncr-sd!ncrcae!ncrhub2!ncrc1m!
tskelton@network.UCSD.EDU
Subject: Source for ON4UN's "Low Band Dx'ing"
To: info-hams@ucsd.edu

My brother tried to order the subject book for me for Christmas,
and was advised it was out of print. Is this so? Can anyone clarify
or point me to a source? I did notice that QST wasn't listing it, and
I found the ad in 73's book list I think. Any help will be appreciated
in procuring this for my library. Yes, I wish I had done it when it
first came out. 73, Tom WB4IUX

--

Date: 09 Feb 93 00:01:07
From: news.service.uci.edu!ucivax!ofa123!ofa123!Sean.Reigle!
f203.n103.z1.fidonet.org@network.UCSD.EDU
Subject: Testing
To: info-hams@ucsd.edu

I would like to let anyone that is interested in my testing for the
general class license this weekend (which I passed)...

I arrived at the testing site and was chatting with a VEC while the
20-WPM code test was being given. He introduced himself as a VEC with a
whole bunch of other garbage along with it, making it sound like he
thought he was above all other amateurs. I just plain a simply asked him,
"So you are the people who put the no-coder's on the air?". His response
was "Welp, the no-coder's are of a many breed around here in Southern
California, but I think that most of them are good people.". So, I
responded, "How many contacts with CW have you made in the past year?".
His reponse, "Well... None actually". My point exactly.

(This message is to inform and I don't want to get into a discussion of
no-coder's and VEC's attitudes, so, no response requested.)

Sean

--- GEcho 1.00/beta+

Date: 9 Feb 93 18:51:32 GMT
From: ogicse!uwm.edu!spool.mu.edu!olivea!inews.Intel.COM!sousa.intel.com!
jreece@network.UCSD.EDU
Subject: Wayne Green, ARRL, 73, QST background?
To: info-hams@ucsd.edu

Well, this new ham is dying to know what's behind the brickbat-throwing between the above-mentioned entities. I can gather that Wayne & 73 magazine have relationship to the ARRL & QST reminiscent of Trotsky and Stalin, or Martin Luther and the Vatican, but what are the juicy details?

This probably ought to be a faq entry.

--

John Reece "This lifeboat is full"
KD6XRL
Not an Intel spokesman

Date: Tue, 9 Feb 1993 01:25:59 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!sdd.hp.com!
hpscit.sc.hp.com!hplextra!hpl-opus!hpnmdla!alanb@network.UCSD.EDU
Subject: What prevents someone from having 2 amateur licenses?
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, rossi@gvlf9-q.gvl.unisys.com (Pete Rossi) writes:

>What mechanism does the FCC and VECs have to prevent someone from
>obtaining more than one amateur license?

Interesting question. Even more interesting, is: would it be legal?
I assumed it would not, but the closest FCC regulation on the subject
I can find is:

97.5 Station License required.

...

(d) The types of written authorizations that permit amateur station operation ... are:

(1) An operator/primary station license (FCC form 660) issued to the person by the FCC. A primary station license is issued only to a person, together with an operator license on the same document. Every amateur operator licensed by the FCC must have one, but only one, primary station license. ...

[(2)-(6) Club, military recreation, RACES, alien reciprocal permit,

or Canadian license.]

In other words, only one station license to a customer, and operator licenses are only issued in conjunction with station licenses. That seems to cover it, but it's kind of obscure.

AL N1AL

End of Info-Hams Digest V93 #191
